

## M 6.4, 2019 Ridgecrest Earthquake Sequence

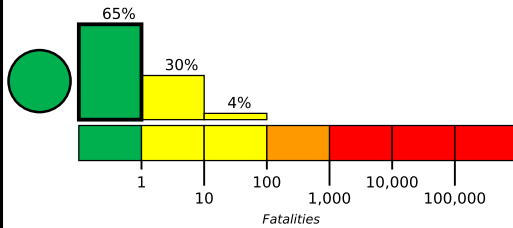
Origin Time: 2019-07-04 17:33:49 UTC (Thu 10:33:49 local)

Location: 35.7052° N 117.5060° W Depth: 10.7 km

FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)

Created: 1 week, 5 days after earthquake

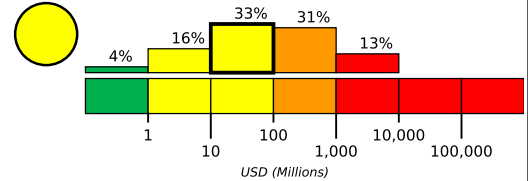
### Estimated Fatalities



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of the United States. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

### Estimated Economic Losses

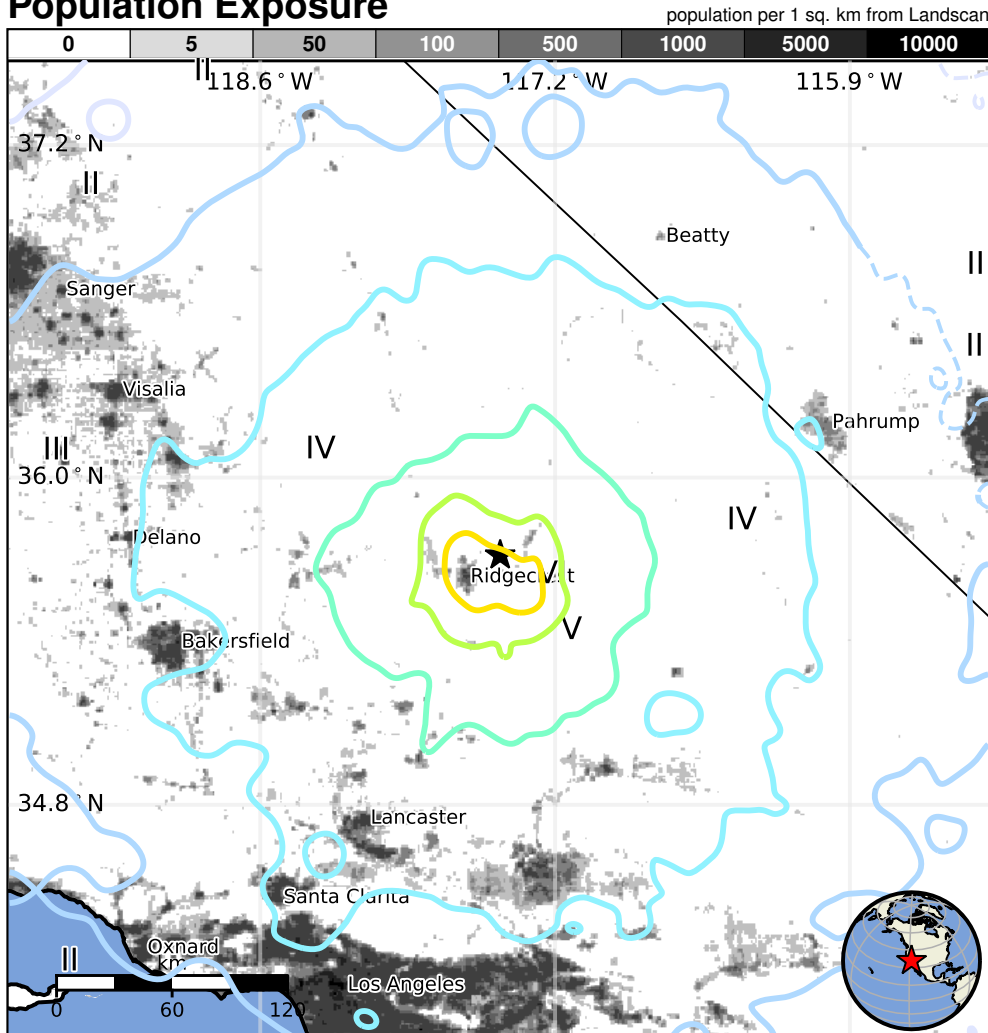


## Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		4k*	18,721k*	3,343k	53k	4k	40k	2k	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

## Population Exposure



### Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1992-06-28	191	7.3	VIII(23k)	1
1987-10-01	191	5.9	VIII(47k)	8
1971-02-09	165	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Ridgecrest	28k
VII	China Lake Acres	2k
VI	Inyokern	1k
VI	Searles Valley	2k
V	Weldon	3k
V	North Edwards	1k
III	Bakersfield	347k
III	Los Angeles	3,793k
III	Anaheim	336k
III	Long Beach	462k
II	Fresno	495k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/ci38443183#pager>

bold cities appear on map.

(k = x1000)

Event ID: ci38443183